

MINNESOTA

Science and Engineering Profile

	Minnesota	U.S.	Rank		Minnesota	U.S.	Rank
Doctoral scientists, 1993	7,705	430,332	18	Total R&D performance, 1993 (millions)	\$2,922	\$161,427	14
Doctoral engineers, 1993	1,163	81,293	21	Industry R&D, 1993 (millions)	\$2,458	\$117,622	11
S&E doctorates awarded, 1993	440	25,409	18	Academic R&D, 1993 (millions)	\$332	\$19,489	19
of which, in life sciences	28%	24%		of which, in life sciences	71%	55%	
in engineering	20%	22%		in engineering	9%	16%	
in psychology	15%	13%		in math & computer sciences	5%	4%	
S&E postdoctorates, 1993				Higher education current-fund			
in doctorate-granting institutions	709	34,394	14	expenditures, 1993 (millions)	\$3,099	\$163,994	18
S&E graduate students, 1993				Number of SBIR awards, 1990-93	201	13,995	20
in doctorate-granting institutions	6,198	438,128	23	Patents issued to state residents, 1994	1,721	56,039	11
Population, 1994 (000s)	4,567	260,341	20	Gross state product, 1992 (billions)	\$110.3	\$5,994.1	18
Civilian labor force, 1994 (000s)	2,565	131,013	20	of which, agriculture	3%	2%	
Personal income per capita, 1994	\$22,453	\$21,809	16	manufacturing, mining, construction	25%	23%	
Federal spending				transportation, communication, utilities	8%	9%	
Total expenditures 1994 (millions)	\$18,797	\$1,284,896	25	wholesale and retail trade	17%	16%	
R&D obligations 1993 (millions)	\$446	\$65,394	26	finance, insurance, real estate	18%	18%	
				services	18%	20%	
				government	11%	12%	

Rankings and totals are based on data for the 50 States and D.C.

Federal Obligations for Research and Development in Minnesota by Agency and Performer: Fiscal Year 1993

[Thousands of dollars]

	Total	Federal intramural	All FFRDCs	Industrial firms	Universities & colleges	Other nonprofits	State & local government	State rank
Total, all agencies	445,536	40,129	0	140,918	167,277	91,959	5,253	26
Department of Agriculture	24,452	14,591	0	80	9,780	1	0	20
Department of Commerce	8,270	4,582	0	3,460	228	0	0	16
Department of Defense	158,125	3,201	0	123,096	10,329	21,499	0	25
Department of Energy	7,086	0	0	0	7,086	0	0	36
Dept. of Health & Human Services	182,034	0	0	3,801	105,035	70,340	2,858	15
Department of the Interior	20,026	17,755	0	1,283	976	0	12	9
Department of Transportation	9,077	0	0	5,332	1,387	0	2,358	16
Environmental Protection Agency	4,846	0	0	2,391	2,430	0	25	18
Nat'l Aeronautics & Space Admin.	4,123	0	0	1,036	3,087	0	0	36
National Science Foundation	27,497	0	0	439	26,939	119	0	21
State rank	26	36	na	24	21	8	14	

Federal R&D obligations are as reported by funding agencies.

FFRDC = federally funded research and development center

SBIR = small business innovation research

na = not applicable

Prepared by the National Science Foundation/Division of Science Resources Studies. Data compiled from numerous sources.